

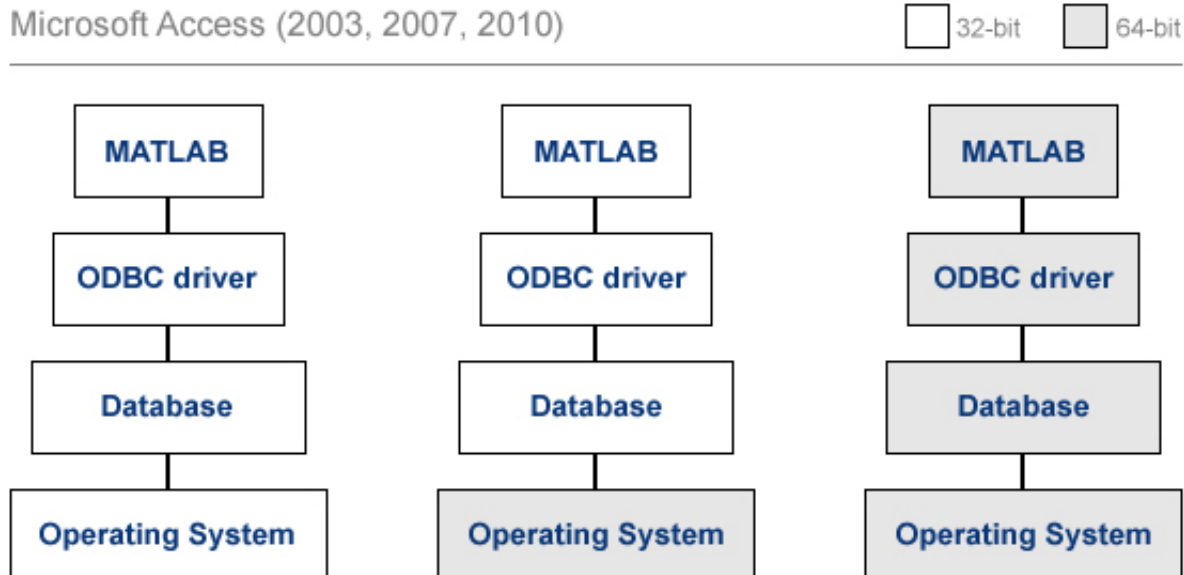
# Microsoft Access ODBC for Windows

This tutorial shows how to set up a data source and connect to your Microsoft® Access™ database. This tutorial uses the 32-bit Microsoft Access Driver (\*.mdb, \*.accdb) Version 14.00.6015.1000 to connect to the Microsoft Access 2010 Version 14.0.6129.5000 (32-bit) database.

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## Step 1. Check the 32-bit and 64-bit compatibility.

This diagram shows the operating system, database, ODBC driver, and MATLAB® software that are installed on your machine. You can install the database locally or remotely. These graphics indicate that the bitness (32-bit or 64-bit) of MATLAB, ODBC driver, and the database must match. Otherwise, MATLAB displays an error. For details about the error, see [Database Connection Error Messages](#).



If you are running 32-bit or 64-bit MATLAB, the corresponding 32-bit or 64-bit Microsoft ODBC Administrator opens when you start creating a new ODBC data source using Database Explorer. The drivers listed in the Create New Data Source dialog box in the Microsoft ODBC Administrator are also 32-bit or 64-bit respectively.

## Step 2. Verify the driver installation.

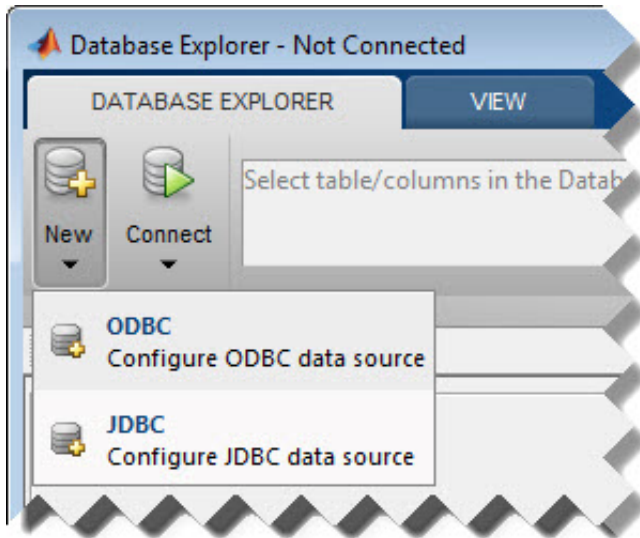
The ODBC driver is typically preinstalled on your computer. For details about the driver installation or troubleshooting the installation, contact your database administrator or refer to your database documentation on ODBC drivers. For information about the Microsoft ODBC Data Source Administrator, see [Driver Installation](#).

## Step 3. Set up the data source using Database Explorer.

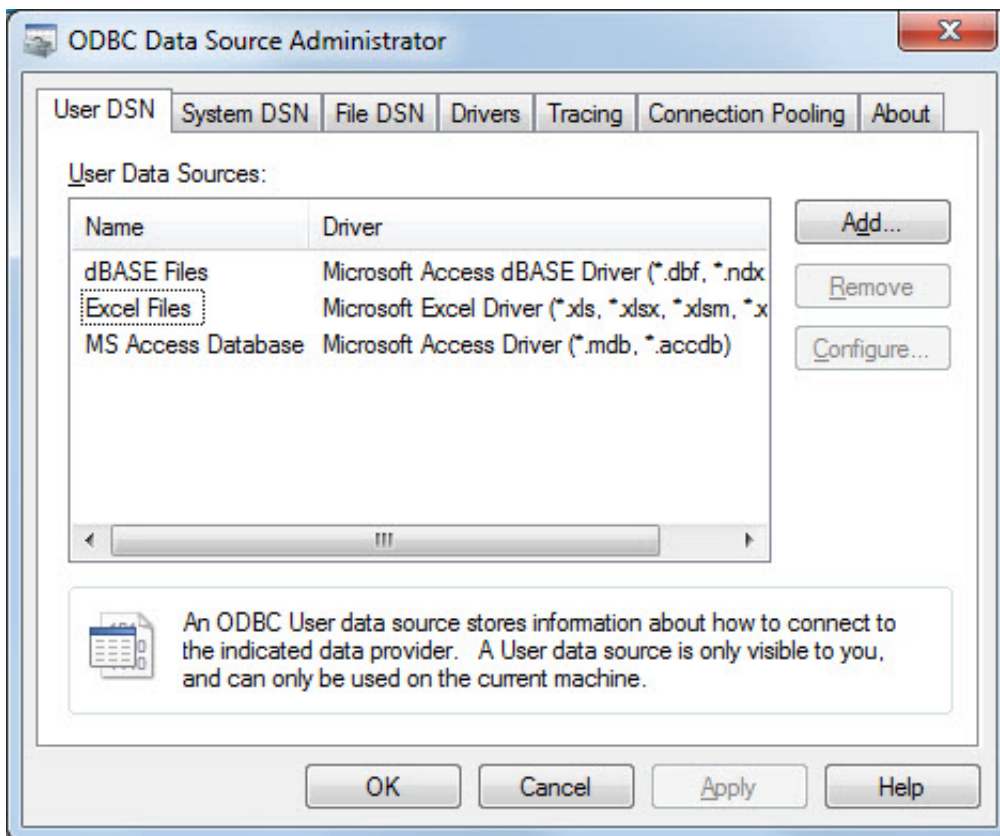
Set up your Microsoft Access database using Database Explorer. When setting up a data source for use with an ODBC driver, you can locate the target database on a PC running the Windows® operating system or on another system to which the PC is networked. These instructions use the Microsoft ODBC Data Source Administrator Version 6.1 for the U.S. English version of Microsoft Access 2010 for Windows systems.

When using a 32-bit version of Microsoft Office, you must also use a 32-bit version of MATLAB to complete the following steps.

1. Close all open databases, including tutorial.mdb, in the database program.
2. Open Database Explorer by clicking the **Apps** tab on the MATLAB Toolstrip. Then, select **Database Explorer** from the **Database Connectivity and Reporting** section in the apps gallery. Alternatively, enter dexplore at the command line. If no data sources are set up, a message box opens. Click **OK** to close it. Otherwise, the Connect to a Data Source dialog box opens. Click **Cancel** to close this dialog box.
3. Click the **Database Explorer** tab, and then select **New > ODBC**.

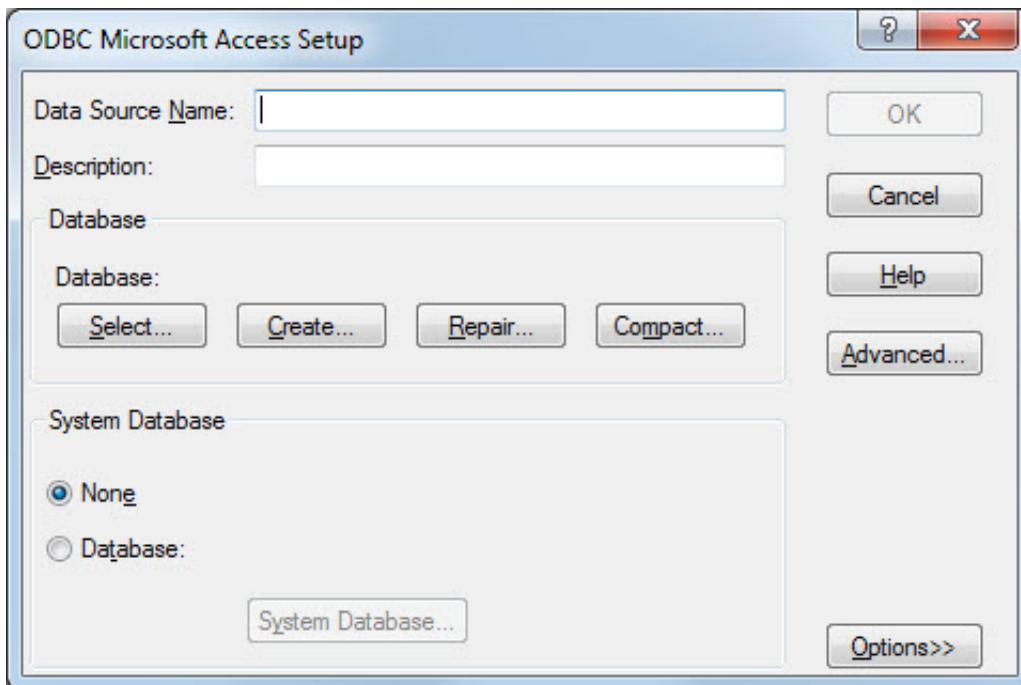


In the ODBC Data Source Administrator dialog box, you can define the ODBC data source.



4. Click the **User DSN** tab and then click **Add**. When setting up an ODBC data source, you can use a User DSN or System DSN. A User DSN is specific to the user on a machine. Any data sources a user defines under User DSN are seen only by that specific user. Conversely, a System DSN is not specific to the user on a machine. Any data sources a user defines under System DSN on a machine can be seen by any user who logs into that machine. Your ability to set up a User DSN or System DSN might depend on the database and ODBC driver you are using. For details, contact your database administrator or your database ODBC driver documentation.

5. A list of installed ODBC drivers appears in the Create New Data Source dialog box. Select Microsoft Access Driver (\*.mdb, \*.accdb) and click **Finish**.
6. In the ODBC Microsoft Access Setup dialog box for your driver, enter dbtoolboxdemo as the data source name. Enter tutorial database as the description. Click **Select** to open the Select Database dialog box.

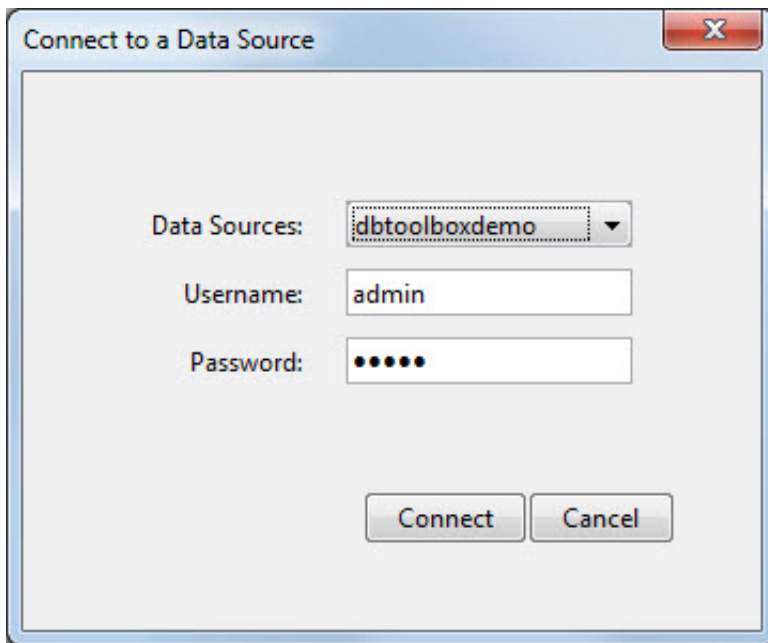


7. Specify the database you want to use. For the dbtoolboxdemo data source, select tutorial1.mdb. If your database is on a system to which your PC is connected:
  - a. Click **Network**.
  - b. In the Map Network Drive dialog box, specify the folder containing the database that you want to use.
  - c. Click **Finish**.
8. Click **OK** to close the Select Database dialog box. In the ODBC Microsoft Access Setup dialog box, click **OK**. The ODBC Data Source Administrator dialog box displays the dbtoolboxdemo and any additional data sources that you added in the **User DSN** tab. Click **OK** to close the dialog box.
9. Test the connection to the data source by using Database Explorer to connect to the database.  
After you complete the data source setup, connect to the Microsoft Access database using Database Explorer or the command line with the native ODBC or ODBC connection.

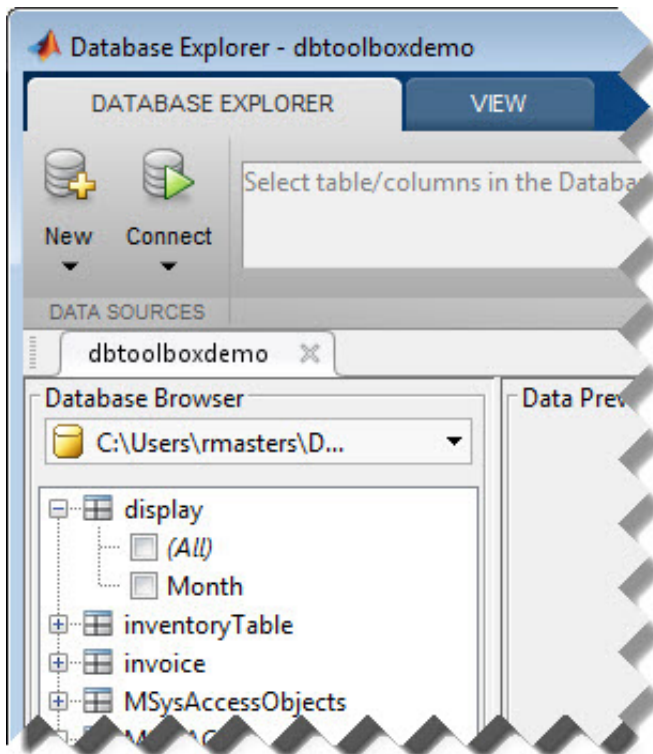
#### Step 4. Connect using Database Explorer or the command line.




##### Connect to Microsoft Access using Database Explorer.

1. After setting up the data source, click **Connect** in the **Database Explorer** tab.
2. In the Connect to a Data Source dialog box, connect to your database by selecting the data source name dbtoolboxdemo from the **Data Sources** list.
3. Enter a user name and password and click **Connect**.

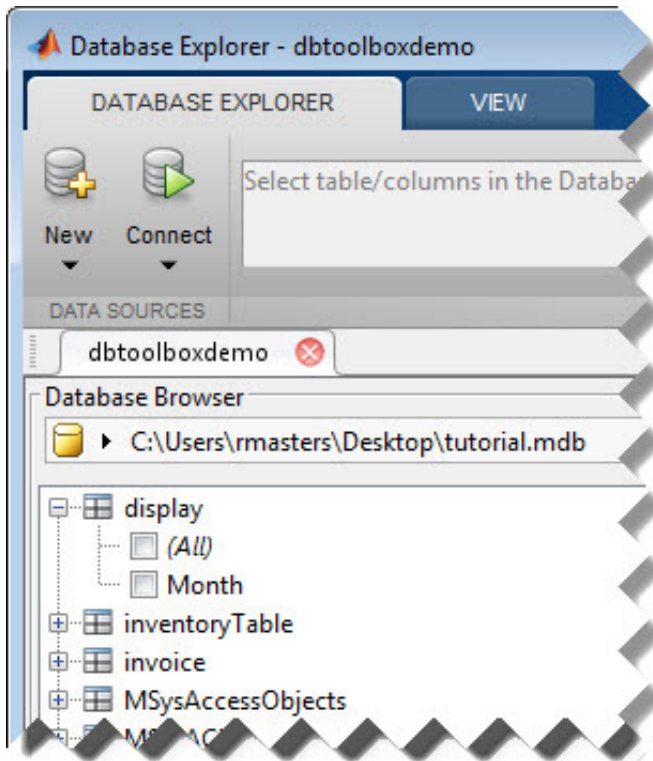


Database Explorer connects to the database and displays the tables list, or database schema, on the left side of the window.



4. Close the connection using Database Explorer by hovering the cursor over the **Close** button (  ) next to the **dbtoolboxdemo** data source name on the database tab. The **Close** button turns into a red circle (  ). Click it to close the database connection. If you want to close Database Explorer and all database connections, click the **Close** button (  ) in the top-right corner.

If Database Explorer is docked, click the **Close** button (  ) to close all database connections and Database Explorer.



### Connect to Microsoft Access using the native ODBC connection command line.

1. Connect to the database with the ODBC data source name. For example, the following code assumes you are connecting to a data source named dbtoolboxdemo with user name admin and password admin.

```
conn = database.ODBCConnection('dbtoolboxdemo','admin','admin');
```

2. Close the database connection conn.

```
close(conn)
```

### Connect to Microsoft Access using the ODBC connection command line.

1. Connect to the database with the ODBC data source name. For example, the following code assumes you are connecting to a data source named dbtoolboxdemo with user name admin and password admin.

```
conn = database('dbtoolboxdemo','admin','admin');
```

2. Close the database connection conn.

```
close(conn)
```

## See Also

[close](#) | [database](#)

## More About

- [Working with Database Explorer](#)

